

SOUVIK RANA

Address: - B-12/63, Kalyani, Nadia-741235, West Bengal, India

Contact: - (+91) 9163161124

Email: - rana.souvik17@gmail.com

LinkedIn: - [linkedin.com/in/souvik-rana-sr17](https://www.linkedin.com/in/souvik-rana-sr17)



PROJECTS

- ❖ **Design of a Broadband Wearable Antenna using IoT and medical application**
 - Built a cutting-edge broadband wearable antenna spanning frequencies from 3 to 10 GHz, tailored specifically for IoT and medical applications using CST Microwave Studio and Ansys.
 - This innovative, biocompatible design not only enables seamless on-body communication but also revolutionizes continuous health monitoring, promising enhanced patient care and diagnostic accuracy.
- ❖ **Exploring Sensor Data Acquisition and Cloud Integration with ESP8266**
 - Developed an ESP8266-based system utilizing an LDR sensor to collect light data.
 - Programmed the microcontroller to transmit this data to an AWS cloud server, demonstrating proficiency in sensor interfacing, data acquisition, and cloud integration principles.
- ❖ **Touch based Intrusion Detection System using Arduino**
 - Interfaced a capacitive touch sensor (TTP223B) to Arduino UNO board.
 - Displayed “Intrusion Alert” message in a 16×2 LCD when a touch is recorded.

KEY SKILLS

- ❖ **Programming and Web development:** C, C++, Java, Python, HTML, CSS, JavaScript
- ❖ **Industry Software:** CST Microwave Studio, Ansys, MATLAB, OCTAVE, FreeCAD, EAGLE PCB Design and Electrical Schematic, MS Office.
- ❖ **Soft Skills:** Leadership skills, Problem Solving abilities, Teamwork skills, Public speaking abilities.

EDUCATION

- | | |
|---|--|
| ❖ Bachelor of Technology in Electronics and Communication Engineering
Academy of Technology, Hooghly, West Bengal | (October 2021 - Present)
CGPA: 8.16 |
| ❖ Higher Secondary (WBCHSE)
Springdale High School, Kalyani, West Bengal | 2021
Percentage: 85% |
| ❖ Secondary (WBBSE)
Springdale High School, Kalyani, West Bengal | 2019
Percentage: 81.29% |

CERTIFICATIONS

- ❖ **Short term course on “Hands-on Introduction to Internet of Things with Machine Learning” at IIT Kharagpur.** (December 2023)
- ❖ **Online course on “Geodata Processing using Python” by ISRO.** (January 2024)

POSITION OF RESPONSIBILITY

- ❖ **Organizer | Techfest & Humatronics of Academy of Technology** 2024

HOBBIES

- ❖ Singing, Playing Sports (like cricket, football, badminton, chess, etc.), Playing Instruments (like guitar, harmonium, etc.)